

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

473728

1. Manufactured and certified by **EXCHANGER INDUSTRIES (A Division of Premetalco Inc.) 5505 - 52 Street S.E., Calgary, AB T2A 6A8**
(Name and address of Manufacturer)
2. Manufactured for **Presson Manufacturing Ltd. 2103 - 8th Street Nisku, AB T9Z 7E1**
(Name and address of Purchaser)
3. Location of installation **Anderson Exploration, Narraway, AB L.S.D.#10-08-64-10-W6M**
(Name and address)
4. Type **Horizontal Heat Exchanger**
(Horiz., vert., or sphere) (Tank, separator, jkt. vessel, heat exch., etc.) **01-3503B**
(Mfg's serial No.)
- P5904.2** **01-3503 Rev.2** **2001**
(CRN) (Drawing No.) (Nat'l. Bd No.) (Year Built)
5. ASME Code, Section VIII, Div. 1 **1998-2000**
Edition and Addenda (date) Code Case No. Special Service per UG-120(d)

Items 6-11 Incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels.

6. Shell (a) No. of Course(s): **5** (b) Overall length (ft & in.): **47' - 5 5/8"**

Course(s)			Material	Thickness		Long. Joint (Cat.A)			Circum. Joint (Cat. A,B, & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
4	45 3/4"	10' - 0"	SA516-70N	1.250"	1/16"	1	Full	1.0	1	Full	1.0	-	-
1	45 3/4"	7' - 5 5/8"	SA516-70N	1.250"	1/16"	1	Full	1.0	1	Full	1.0	-	-

(a)												(b)											
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp.												(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp.											
Location (Top, Bottom, Ends)		Thickness		Radius		Elliptical		Conical		Hemispherical		Flat		Side to Pressure		Category A							
		Min.	Corr.	Crown	Knuckle	Ratio		Apex Angle		Radius		Diameter		Convex	Concave	Type	Full	Spot/None	Eff.				
(a)																							
(b)																							

If removable, bolts used (describe other fastening)

7. Heads: (a) (b)
8. Jacket (a) (b)
9. MAWP **1000** **150** **-20** **1000**
(internal) (external) (internal) (external) °F Min. design metal temp. °F at psi

10. Impact test **No, exempt per UCS-66(a).**

11. Hydro., pneu., or comb. test press. **1300 psi** Proof test

Items 12 and 13 to be completed for tube sections.

12. Tubesheet: **SA516-70N** **45 3/4"** **3.250"** **1/8"** **Welded**
Stationary (Mat'l Spec. No.) Dia., in. (subject to press.) Nom. thk. in. Corr. Allow., in. Attachment (welded or bolted)
13. Tubes: **SA 179** **3/4"** **14 BWG M/W** **1136** **Straight**
Mat'l Spec. No., Grade or Type O.D., in. Nom. thk., in. or gauge Number Type (Straight or U)

Items 14-18 Incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s): **2** (b) Overall length (ft & in.): **3' - 0"**

Course(s)			Material	Thickness		Long. Joint (Cat A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
2	45 3/4"	3' - 0"	SA516-70N	1.250"	1/16"	1	Full	1.0	1	Full	1.0	-	-

(a)												(b)											
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp.												(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp.											
Location (Top, Bottom, Ends)		Thickness		Radius		Elliptical		Conical		Hemispherical		Flat		Side to Pressure		Category A							
		Min.	Corr.	Crown	Knuckle	Ratio		Apex Angle		Radius		Diameter		Convex	Concave	Type	Full	Spot/None	Eff.				
(a)		End	7"	1/16"								57"											
(b)		End	7"	1/16"								57"											

If removable, bolts used (describe other fastening).

SA 193-B7, 1 3/4" X 18" lg. (88 pcs.)

(Mat'l Spec. No., Grade, size, No.)

16. MAWP $\frac{1000}{\text{(internal)}}$ $\frac{-}{\text{(external)}}$ psi at max. temp. $\frac{150}{\text{(internal)}}$ $\frac{-}{\text{(external)}}$ °F Min. design metal temp. $\frac{-20}{\text{(internal)}}$ $\frac{-}{\text{(external)}}$ °F at $\frac{1000}{\text{(internal)}}$ $\frac{-}{\text{(external)}}$ psi.

Yes, required on channel covers. All other material exempt per UCS-66(a).

(Indicate yes or no and the component(s) impact tested)

18. Hydro., pneu., or comb. test press.

1300 psi

Proof test

19. Nozzles, inspection, and safety valve openings:

[illegible]

20. Supports:	Skirt	No (Yes/no)	Lugs	N/A (No.)	Legs	N/A (No.)	Other	Saddles (Describe)	Attached	Welded to Shell (Where and how)
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	(Yes/no)	(No.)	(No.)	(Describe)
21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (List the name of part, item number, mfg's. name and identifying number)				

22. Remarks:

REMARKS:		
SAFETY VALVES:	P.S.V. on piping per UG-125 3(g) to be installed by owner	CUBIC CAPACITY: 545.27 cu.ft.
SURFACE AREA:	10488.43 sq.ft.	
SERVICE:	Gas / Gas Exchanger	
ITEM #:	E-1402B	Constructed to Drawing #01-3503 Rev.5

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the

ASME Code for Pressure Vessels, Section VIII, Division 1.

ASME Code for Pressure Vessels, 1990 Edition

II. Certificate of Authorization No. 5983

Expires

March 30 .20 02

Date Oct 15, 2001 Name _____

Exchanger Industries (A Division of Premetalco Inc.)
(Manufacturer)

Signed Janette J. Archibald
(Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of ALBERTA
and employed by ALBERTA BOILERS SAFETY ASSOCIATION of CALGARY, ALBERTA and state that to the best of my knowledge

and employed by ALBERTA BOILERS SAFETY
the pressure vessel described in this Manufacturer's Data Report on

and employed by ALBERTA BOILERS SAFETY ASSOCIATION of CALGARY, ALBERTA
the pressure vessel described in this Manufacturer's Data Report on Oct. 15, 2001, and state that, to the best of my knowledge and belief, the
Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer
makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable
in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

makes any warranty, expressed or implied, concerning the pressure vessel described above, or that it will not be used in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Oct. 15/2002 Signed [Signature] (Authorized Inspector) Commissions Alberta 60112 (Nat'l Board incl. endorsements, State, Prov. and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1.

U. Certificate of Authorization No.

Expires

, 20

Date _____ Name _____

(Assembler)

Signed

(Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____

and employed by _____
have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____
not included in the certificate of shop inspection, have been inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this
pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By
signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report.
Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this
inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board incl. endorsement, State, Province and No.)